

①⑫ **EUROPEAN PATENT APPLICATION**

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⑤④ **Temperature sensitive multicopy plasmids and organisms containing the same, their production and use in protein production.**

⑤⑦ The invention provides plasmids of Co1E1 type parentage which have a temperature sensitive replication system such that the plasmid copy number in a given host cell may be controlled by a temperature shift. Such plasmids permit the use of temperature as a switch for controlling gene amplification and hence the production of corresponding protein in a host cell.

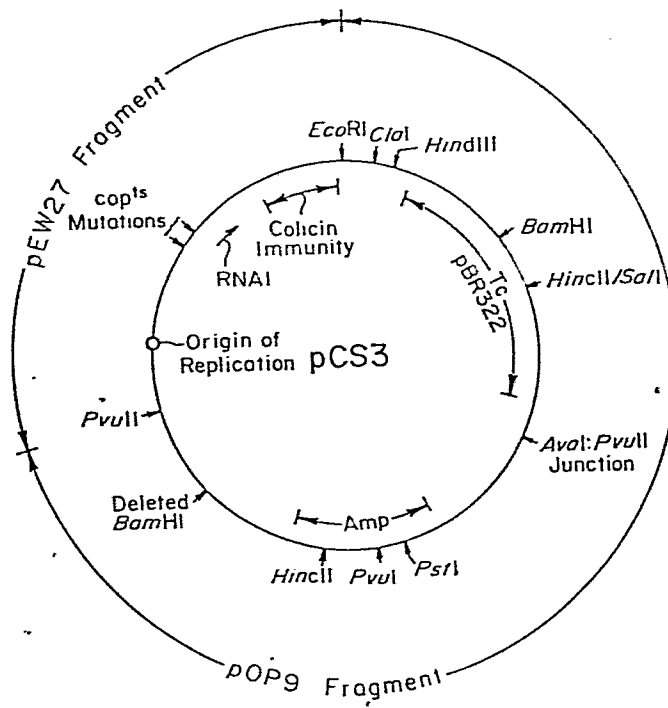


FIG. 3



European Patent
Office

EUROPEAN SEARCH REPORT

0096586

Application number

EP 83 30 3293

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 3)
X,D	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES USA, vol. 79, 4th June 1982, pages 3570-3574; E.M.WONG et al.: "Temperature-sensitive copy number mutants of ColE1 are located in an untranslated region of the plasmid genome" * Figure 1 *	1,2	C 12 N 15/00 C 12 N 1/20 C 12 P 21/00
Y,D P	--- EP-A-0 060 045 (CETUS CORP.) * Page 3, lines 2-9; page 8, lines 14-26; claims 6,7 *	1,2	
Y	--- EP-A-0 003 062 (UHLIN) * Examples 2-6 *	1,2	
Y	--- NATURE, vol. 290, 19th March 1981, pages 264-267; A.R.STUITJE et al.: "Identification of mutations affecting replication control of plasmid Clo DF13" * Figures 2,3 *	1,2	TECHNICAL FIELDS SEARCHED (Int. Cl. 3) C 12 N C 12 P
T	--- EP-A-0 105 554 (NEDERLANDSE CENTRALE ORGANISATIE VOOR T.N.O.) * Claim 1 *	1	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 08-07-1985	Examiner CUPIDO M.
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons</p> <p>& : member of the same patent family, corresponding document</p>			